

## CSP-2017-1 MT - SGI Range

### Soil Erosion

#### Sheet and Rill Erosion

##### **Planning Criteria**

Screening level: State established criteria. Assessment level: RHA - soil site stability - slight to moderate or less OR Rangeland Planned Trend is positive

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

Plant cover controls active erosion (shallow <1 foot deep rills/gullies) and runoff from normal rain events. Litter and soil stay in place during normal rain events.

##### **Evaluation Test Met**

Yes ☐ No ☐

#### Wind Erosion

##### **Planning Criteria**

Screening level: State established criteria. Assessment level: RHA - soil site stability - slight to moderate or less OR Rangeland Planned Trend is positive

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

Plant cover controls wind erosion. No blow outs, deposition along fence lines, or on the leeward side of objects is present.

##### **Evaluation Test Met**

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Classic Gully Erosion

#### Planning Criteria

Screening level: Classic gullies are not present. Assessment level: Classic gully management is adequate to stop the progression of head cutting and widening and are offsite impacts are minimized by vegetation and/or structures.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

Plant cover controls active erosion (gullies <1 foot deep).

#### Evaluation Test Met

Yes ☐ No ☐

### Streambank, Shoreline, Water Conveyance Channels

#### Planning Criteria

Screening level: Streams, shoreline or channels are not adjacent to site. Assessment level: For shorelines and water conveyance channels; banks are stable or commensurate with normal geomorphological processes, AND if bank erosion is present, it is beyond the client's control or commensurate with normal geomorphological processes, AND for streambanks, SVAP2 bank condition element score > 5.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

Current plant cover controls active stream bank erosion.

#### Evaluation Test Met

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Soil Quality Degradation

#### Organic Matter Depletion

##### Planning Criteria

Screening level: Soil organic matter depletion is not a problem AND activities do not cause soil organic matter depletion. Assessment level: The RHA - soil site stability is slight to moderate or less AND the RHA - biotic integrity attribute rating is slight to moderate departure or less, OR Rangeland Planned Trend is positive.

##### Planning Criteria Met

Yes ☐ No ☐

##### Evaluation Tests

Plants growing are expected, desired, and suited to the site.

##### Evaluation Test Met

Yes ☐ No ☐

#### Compaction

##### Planning Criteria

Screening level: Soil compaction is not a problem AND activities do not cause soil compaction problems. Assessment level: The RHA - soil site stability is slight to moderate or less OR compaction is managed to meet client's production and management objectives.

##### Planning Criteria Met

Yes ☐ No ☐

##### Evaluation Tests

Soils are not compacted past a point that limits plant root depth and growth.

##### Evaluation Test Met

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Water Quality Degradation

#### Pesticides in Surface Water

##### **Planning Criteria**

Screening level: Pest control chemicals are not applied. Assessment level: Pesticides are stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching AND conservation practices and managements are in place to minimize surface water impacts.

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

If pesticides are applied, they are applied according to label and an environmental risk screening tool is utilized (such as WIN-PST).

##### **Evaluation Test Met**

Yes ☐ No ☐

#### Pesticides in Ground Water

##### **Planning Criteria**

Screening level: Pest control chemicals are not applied. Assessment level: Pesticides are stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching AND conservation practices and managements are in place to minimize ground water impacts.

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

Pesticides are applied using a site-specific mixture of prevention, avoidance, monitoring, and suppression (PAMS) strategies. Environmental risk screening tool are used (such as WIN-PST or similar LGU approval tool).

##### **Evaluation Test Met**

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Nutrients in Surface Water

#### Planning Criteria

Screening level: Organic or inorganic nutrients are not applied AND the PLU is not grazed AND there are no confined livestock areas.  
Assessment level: Nutrients if applied, are based on a soil test, tissue tests or nutrient budget AND conservation practices and managements are in place to minimize surface water impacts.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

Livestock access to stream is controlled OR limited to small watering or crossing areas

#### Evaluation Test Met

Yes ☐ No ☐

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#### Planning Criteria

Screening level: Organic or inorganic nutrients are not applied AND the PLU is not grazed AND there are no confined livestock areas.  
Assessment level: Nutrients if applied, are based on a soil test, tissue tests or nutrient budget AND conservation practices and managements are in place to minimize ground water impacts.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

When sinkholes are present in karst regions, livestock utilization of immediate sinkhole watershed area is managed to avoid nutrient additions to groundwater.

#### Evaluation Test Met

Yes ☐ No ☐

### **CSP-2017-1 MT - SGI Range**

#### **Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Surface Water**

##### **Planning Criteria**

##### **Planning Criteria Met**

Screening level: Potential sources of pathogens or pharmaceuticals are not applied on the land. Assessment level: Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface water sources.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

Livestock access to stream is controlled OR limited to small watering or crossing areas

Yes ☐ No ☐

#### **Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water**

##### **Planning Criteria**

##### **Planning Criteria Met**

Screening level: Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. Assessment level: Petroleum, heavy metals or other potential pollutants are stored and handled to avoid runoff to surface water.

Yes ☐ No ☐

##### **Evaluation Tests**

##### **Evaluation Test Met**

The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well, and - within a stable place designed to provide secondary containment if the primary means were to fail.

Yes ☐ No ☐

### CSP-2017-1 MT - SGI Range

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##### **Planning Criteria**

Screening level: Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants.  
Assessment level: Petroleum, heavy metals or other potential pollutants are stored and handled to avoid runoff to groundwater.

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well, and - within a stable place designed to provide secondary containment if the primary means were to fail.

##### **Evaluation Test Met**

Yes ☐ No ☐

#### Excessive Sediment in Surface Water

##### **Planning Criteria**

Screening level: There are no untreated sources of erosion AND streams or shoreline are not on or adjacent to site. Assessment level: The RHA - hydrologic function attribute - is slight to moderate or less AND the SVAP2 - bank condition is  $\geq 5$ .

##### **Planning Criteria Met**

Yes ☐ No ☐

##### **Evaluation Tests**

Plant cover controls active erosion (shallow  $<1$  foot deep rills/gullies) and runoff from normal rain events. Litter and soil stay in place during normal rain events.

##### **Evaluation Test Met**

Yes ☐ No ☐

**CSP-2017-1 MT - SGI Range****Elevated Water Temperature****Planning Criteria**

Screening level: Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment OR water course temperature is not a client concern. Assessment level: The SVAP2 - riparian area quality element score is  $\geq 5$  AND the SVAP2 - riparian area quantity quality element score is  $\geq 5$  AND the SVAP2 - canopy cover element score is  $\geq 6$ , OR existing conservation practices are in place to address water temperature.

**Planning Criteria Met**Yes ☐ No ☐**Evaluation Tests**

Surface water temperatures in perennial streams do not limit use for the intended purposes.

**Evaluation Test Met**Yes ☐ No ☐



## CSP-2017-1 MT - SGI Range

### Air Quality Impacts

#### Emissions of Particulate Matter (PM) and PM Precursors

##### Planning Criteria

Screening level: Activities are not present that contribute to agricultural source PM or PM precursor emissions AND episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/ commercial), CAFO/manure management). Assessment level: PM and PM Precursor emissions are managed to meet client objectives.

##### Planning Criteria Met

Yes ☐ No ☐

##### Evaluation Tests

If prescribed burning is employed, the smoke management objectives in the burn plan are followed.

##### Evaluation Test Met

Yes ☐ No ☐

If prescribed burning is implemented, a prescribed burn plan has been developed and followed by competent, trained fire personnel.

Yes ☐ No ☐

#### Emission of Greenhouse Gases (GHGs)

##### Planning Criteria

Screening level: Activities are not present that produce GHGs emissions. GHG producing activities are: Fertilization(manure/commercial), CAFO/manure management, Engines (combustion source), Tillage, AND GHGs are not regulated in this planning area. Assessment level: Greenhouse gas emissions are managed to meet client objectives.

##### Planning Criteria Met

Yes ☐ No ☐

##### Evaluation Tests

Forage Supply and Demand Balance is achieved.

##### Evaluation Test Met

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Degraded Plant Condition

#### Undesirable Plant Productivity and Health

##### Planning Criteria

##### Planning Criteria Met

Assessment level: Vegetation meet similarity index or range condition score of 60 or greater for desired plant community and has a positive trend OR RHA - biotic integrity attribute rating - is slight to moderate departure or less.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

When prescribed burning is needed and utilized, a prescribed burn plan has been developed and followed by competent, trained fire personnel.

Yes ☐ No ☐

Plant yield, vigor, and quality are as expected.

Yes ☐ No ☐

#### Inadequate Structure and Composition

##### Planning Criteria

##### Planning Criteria Met

Screening level: Plant communities support the intended land use and desired ecological functions. Assessment level: Plant communities contain adequate diversity, composition and structure to support desired ecological functions OR the RHA - biotic integrity attribute rating is slight to moderate departure or less OR vegetation meet similarity index of 60 or greater for desired plant community and has a positive trend.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

Plants growing are expected, desired, and suited to the site.

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Excessive Plant Pest Pressure

#### Planning Criteria

Screening level: Plant productivity is not limited from pest pressure.  
Assessment level: Pest damage to plants are below economic or environmental thresholds or client-identified criteria AND plant pests, including noxious and invasive species are managed to meet client objectives.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

The current plants provide the desired plant community for the site.

#### Evaluation Test Met

Yes ☐ No ☐

### Wildfire Hazard, Excessive Biomass Accumulation

#### Planning Criteria

Screening level: Wildfire hazards is not a concern. Assessment level: Fuel loads and fuel ladders are managed to provide defensible space and meet client objectives.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

Active management occurs to avoid too much buildup of likely wildfire fuels.

#### Evaluation Test Met

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Fish and Wildlife - Inadequate Habitat

#### Inadequate Habitat - Food

##### Planning Criteria

Assessment level: The WHSI rating is  $\geq 0.5$  AND (when surface stream present) the SVAP2 - fish habitat complexity element score is  $\geq 7$  AND the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ , OR conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds, OR food is available in quality and extent to support habitat requirements for the species of interest.

##### Planning Criteria Met

Yes ☐ No ☐

##### Evaluation Tests

The land adjacent to a waterbody on the side or sides you control does:  
- have diverse, natural plant cover typical to that along streams in your area,  
- extend from the stream bank/shoreline for a distance of 35 feet or 2.5 times channel width (for streams/rivers), whichever is greater,  
AND - have few places where concentrated runoff flows through.

##### Evaluation Test Met

Yes ☐ No ☐

The plant cover provides cover and food for the chosen wildlife species.

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Inadequate Habitat - Cover/Shelter

#### Planning Criteria

Assessment level: The WHSI rating is  $\geq 0.5$  AND (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$  AND the SVAP2 - fish habitat complexity element score is  $\geq 7$  AND the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ , OR conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds, OR cover is of available quality and extent to support habitat requirements for the species of interest.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure, and - human uses and/or grazing levels that do not negatively impact bank condition.

#### Evaluation Test Met

Yes ☐ No ☐

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to comply with state and local regulations when stocking the pond, AND -using a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes ☐ No ☐

Plant growth and cover is managed to develop and maintain habitat for the benefit of wildlife species.

Yes ☐ No ☐

Livestock access to streams is limited to short periods of time and smaller pastures where feasible.

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Inadequate Habitat - Water

#### Planning Criteria

Assessment level: The WHSI rating is  $\geq 0.5$  AND (when surface stream present) the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ , OR conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds, OR water is available in quality and extent to support habitat requirements for the species of interest.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

Water for habitat is at the right height, depth and time of year for wildlife species of concern.

#### Evaluation Test Met

Yes ☐ No ☐

Watering facilities have escape ramps installed. The water surface can be safely accessed.

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Inadequate Habitat - Habitat Continuity (Space)

#### Planning Criteria

Assessment level: The WHSI rating is  $\geq 0.5$  AND (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$  AND the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ , OR conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds, OR The connectivity of habitat components are adequate to support stable populations of targeted species.

#### Planning Criteria Met

Yes ☐ No ☐

#### Evaluation Tests

#### Evaluation Test Met

Existing fences allow wildlife movement without harm.

Yes ☐ No ☐

The land adjacent to a waterbody on the side or sides you control does:  
- have diverse, natural plant cover typical to that along streams in your area,  
- extend from the stream bank/shoreline for a distance of 35 feet or 2.5 times channel width (for streams/rivers), whichever is greater,  
AND - have few places where concentrated runoff flows through.

Yes ☐ No ☐

In-stream structures (dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream/downstream movement of fish and other aquatic animals throughout most of the year.

Yes ☐ No ☐

People, vehicles, equipment, or livestock are only moved across a stream/river at a bridge, culvert, or stabilized ford crossing(s). Travel across the stream/river beyond these crossings is controlled.

Yes ☐ No ☐

Connectivity between food resources and cover and shelter is provided for the chosen wildlife species. <see State Wildlife Action Plan>

Yes ☐ No ☐

## CSP-2017-1 MT - SGI Range

### Livestock Production Limitation

#### Inadequate Feed and Forage

##### Planning Criteria

##### Planning Criteria Met

Assessment level: When the land use has a "grazed" modifier, livestock forage, roughage and supplemental nutritional requirements addressed.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

Plant cover includes desired plants that are sufficient for the dietary needs and production goals of the livestock.

Yes ☐ No ☐

#### Inadequate Shelter

##### Planning Criteria

##### Planning Criteria Met

Assessment level: When the land use has a "grazed" modifier, artificial or natural shelters meet animal health needs and client objectives.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

Livestock have adequate shelter.

Yes ☐ No ☐

#### Inadequate Water

##### Planning Criteria

##### Planning Criteria Met

Assessment level: When the land use has a "grazed" modifier, water of acceptable quality and quantity adequately distributed to meet animal needs.

Yes ☐ No ☐

##### Evaluation Tests

##### Evaluation Test Met

The livestock have enough drinking water of good quality.

Yes ☐ No ☐